JOB PERFORMANCE MEASURE (JPM)

TASK CODE: CB0-009

TASK: Calibrate a beta laboratory instrument

TRAINEE: _____ **SSN:** _____

REFERENCES:

1- WP12-HP1220, Contamination Detection Instrumentation

TERMINAL OBJECTIVE: Given that an beta laboratory instrument requires calibration, calibrate the instrument IAW WP12-HP1220

CONSEQUENCES OF INADEQUATE PERFORMANCE (ABNORMAL CONDITIONS):

1- Improper survey results

HAZARDS (PERSONNEL/EQUIPMENT SAFETY):

1- Electrical hazard

PRE-REQUISITE TRAINING / TASK COMPLETION:

1- CL 1.01 through CL 1.09,CL 1.13
2- CL 2.03, CL2.08, CL 2.19
3- CF0-110-JP, Operate a beta laboratory instrument
4- CF0-156-JP, Control a radioactive source
5- ELC103, Electrical safety
6- MED101, First aid / CPR

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

1- Beta laboratory instrument
2- Procedure WP12-HP1220
3- Calibration data sheet
4- DVM
5- Sr/Y-90 check source
6- High voltage probe
7- Tc-99 check source
8- Pulse generator MP1 or MP2
9- Calibration sticker

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provid clarification of requirements if requested by trainee. You are encouraged to ask relevant questions to verify trainee understanding. If a trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's certification card.

KNOWLEDGE REQUIREMENTS:

Ref.	Knowledge requirement	P/F
1	State the frequency of calibration for a beta laboratory instrument	
1	State your actions if the beta laboratory instrument fails the calibration	

PERFORMANCE REQUIREMENTS:

Ref.	CRITICAL STEPS	P/F
1	Perform a high voltage check	
1	Take the required DVM measurements	
1	Perform a digital time base check	
1	Perform an "as found" efficiency check	
1	Perform a detector assembly check	
1	Perform an "as left" efficiency check	
1	Complete the calibration data sheet	

FINAL EVALUATION: PASS FAIL

COMMENTS:

EVALUATOR SIGNATURE: _____ **DATE:** _____

STUDENT SIGNATURE: _____ **DATE:** _____

MANAGER SIGNATURE: _____ **DATE:** _____